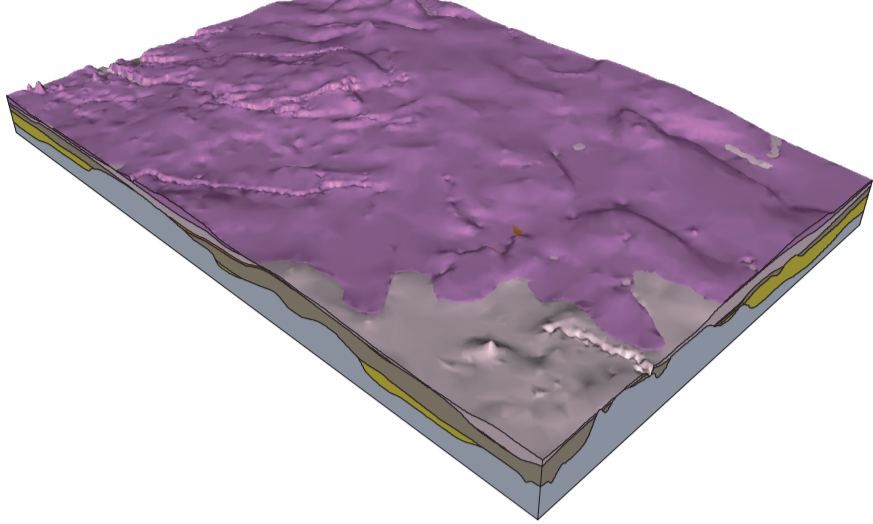
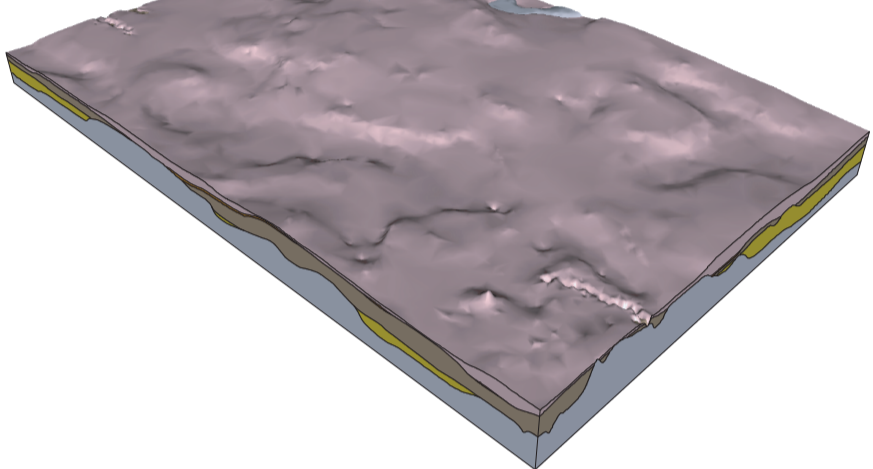


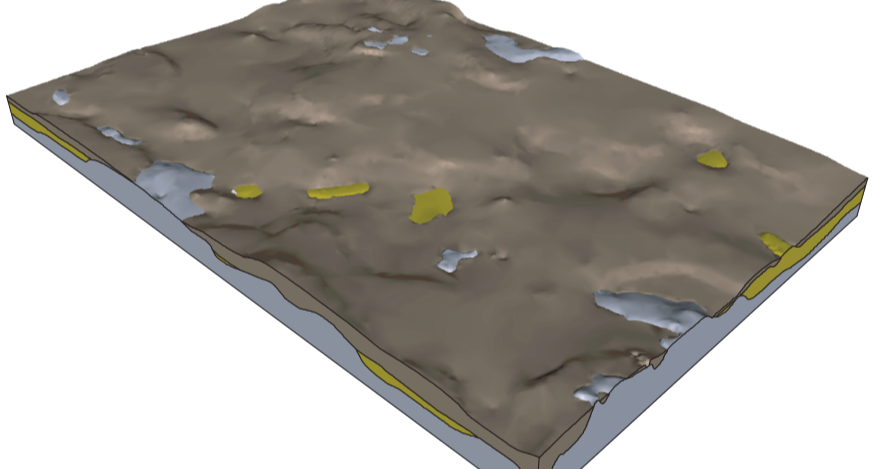
13F.—Topography of the lead surface, which is equivalent to the upper surface of the Weston and Mason Groups except where they are covered by this, discontinuous Cabokia Formation. In the southwestern part of the map area, beyond the limit of ice that deposited the Weston Group clastics, this Cabokia Formation and Pointe St. directly overlie the upper Glasford Formation.



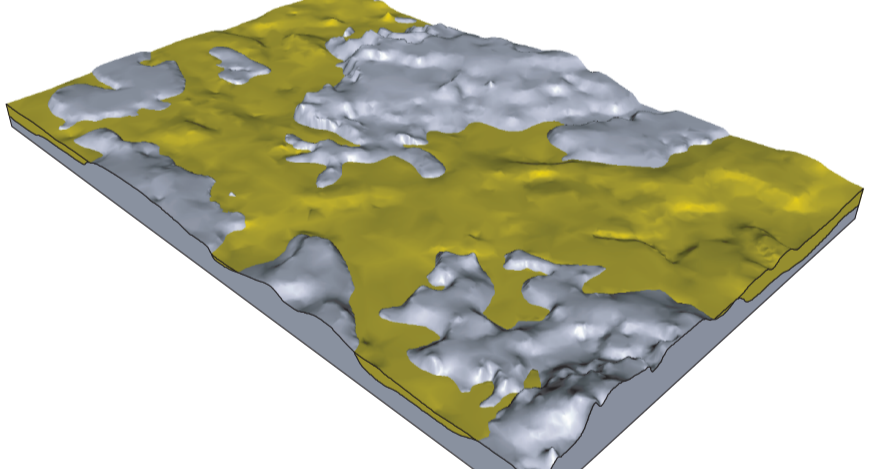
13E.—Topography of upper surface of the upper Glasford Formation. Southeast corner of the map area shows upper surface of the lower Glasford Formation. Stratus, high-relief areas in the west and southeast are the result of incision by modern streams (for example, from west to east in the southern half of the map area, the valleys of Salt Creek, the Sangamon River, and Salt Fork). A small topographic high near the southeast corner of the map area is attributed to a late stratigraphic control point where lower Glasford Formation deposits were found at a noticeably higher elevation than in adjacent points. Although this data point does not agree with the regional map trend, it was retained (see discussion on sheet 1 under "An internally consistent geologic model and set of maps," first paragraph).



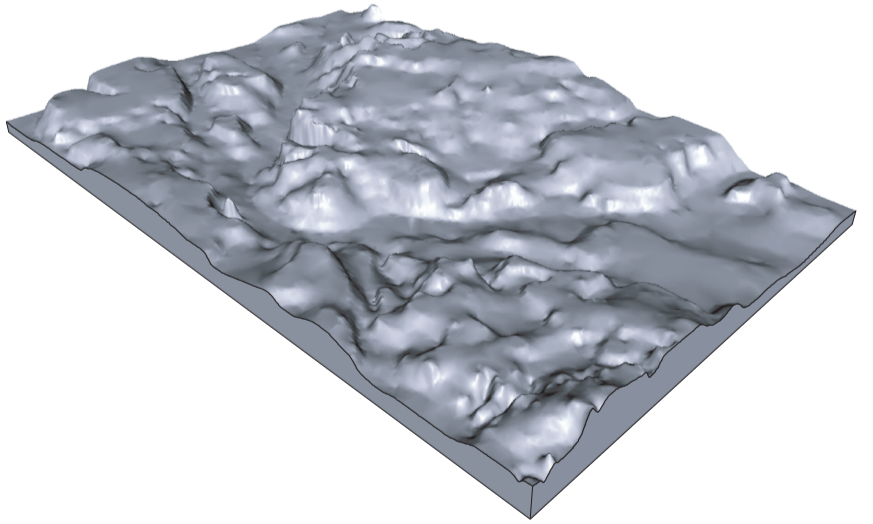
13D.—Topography of upper surface of the lower Glasford Formation. Stratus, high-relief areas in the southwest and southeast are the result of incision by modern streams (the valleys of Salt Creek and Salt Fork, respectively). A small topographic high near the southeast corner of the map area is attributed to a late stratigraphic control point where lower Glasford Formation deposits were found at a noticeably higher elevation than in adjacent points. Although this data point does not agree with the regional map trend, it was retained (see discussion on sheet 1 under "An internally consistent geologic model and set of maps," first paragraph).



13C.—Topography of upper surface of the upper Banner Formation.



13B.—Topography of upper surface of the middle Banner Formation deposits lying in the Mahomet Bedrock Valley. Includes lower Banner Formation deposits where in the valley (see discussion on sheet 1 under "Quaternary stratigraphy," fifth paragraph).



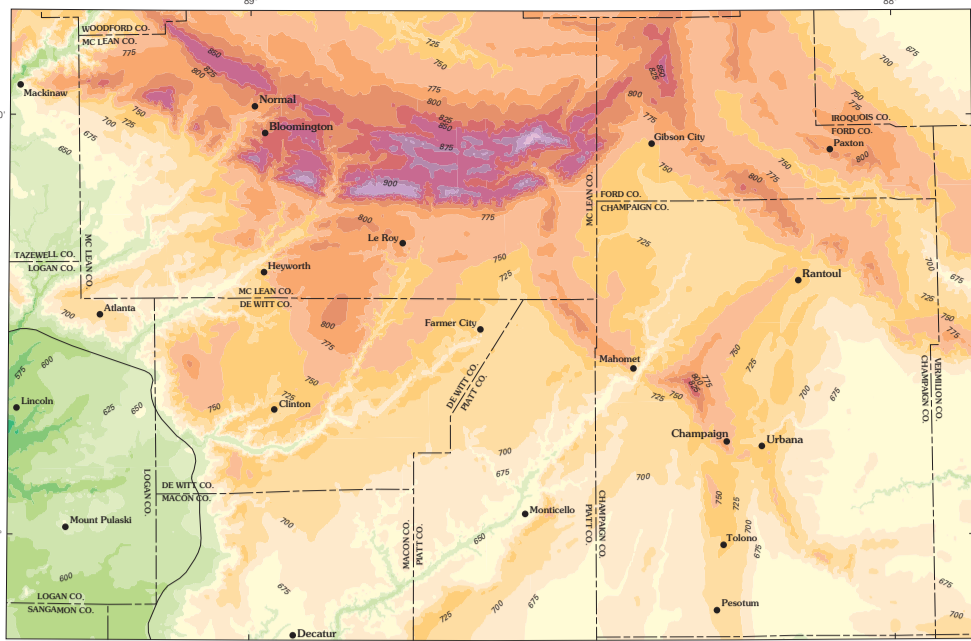
13A.—Topography of the bedrock surface.

EXPLANATION OF STRATIGRAPHIC UNITS

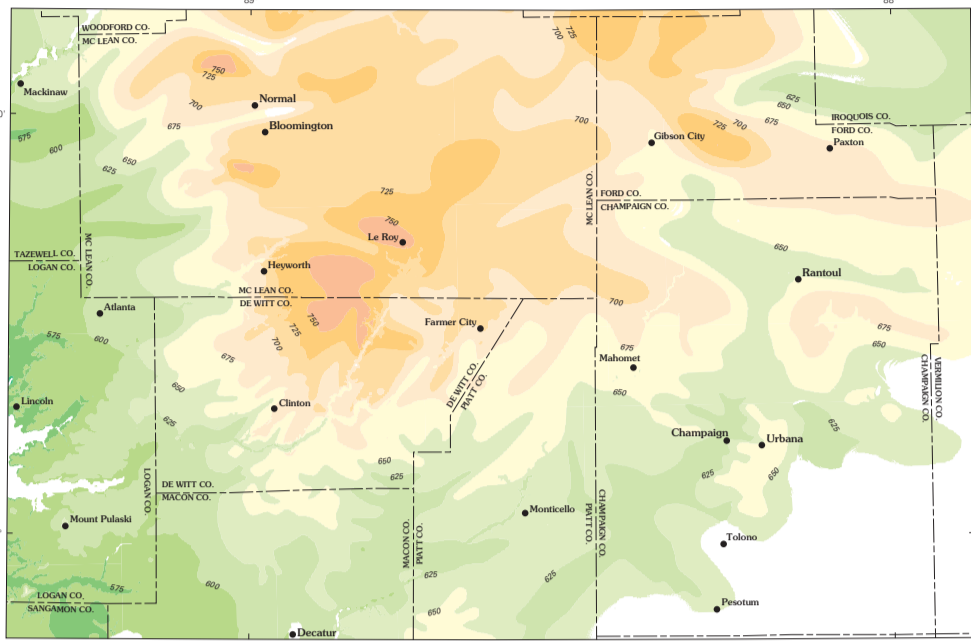
Figures 13A-F and 14C and F

- Weston and Mason Groups, including Cabokia Formation (discontinuous)
- Upper Glasford Formation (Illinois Glasford)
- Upper Glasford basal sand
- Lower Glasford Formation (Illinois Glasford)
- Lower Glasford basal sand
- Upper Banner Formation (pre-Illinois Glasford)
- Middle Banner Formation—mostly Mahomet Sand Member (pre-Illinois Glasford)
- Bedrock (undifferentiated)

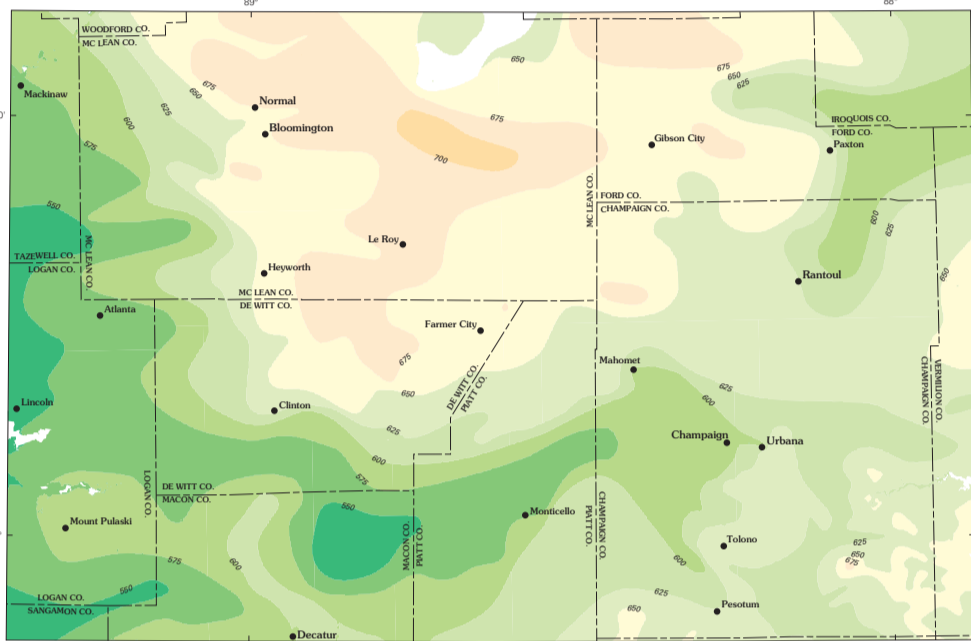
Figure 13A-F.—Block diagrams of the map area showing surface topography of bedrock and of the Quaternary stratigraphic units. Vertical faces show variability in thickness of the Quaternary units. Viewpoint is from the southwest. To show topographic features, the maps are vertically exaggerated approximately 30X.



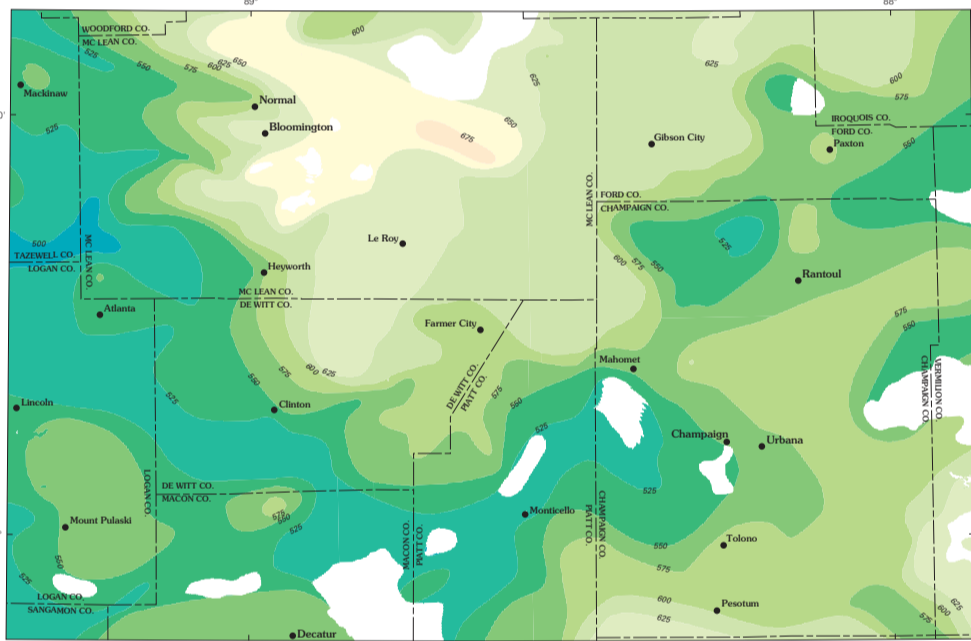
14F.—Elevation of the lead surface, which is equivalent to the top of the Weston and Mason Groups except where they are covered by this, discontinuous Cabokia Formation. In the southwestern part of the map area beyond the limit of ice that deposited the Weston Group clastics, this Cabokia Formation and Pointe St. directly overlie the upper Glasford Formation.



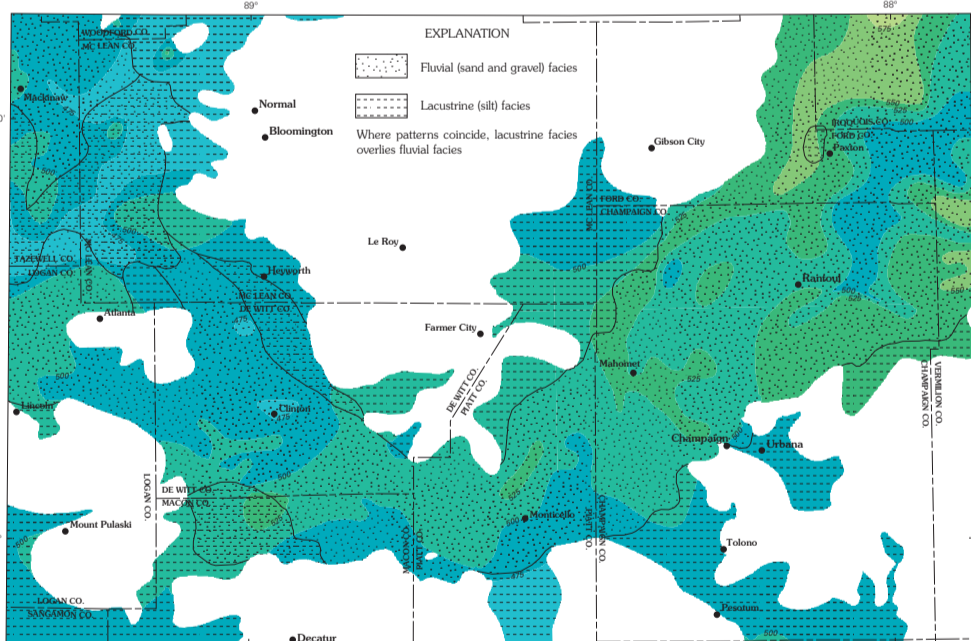
14E.—Elevation of the top of the upper Glasford Formation.



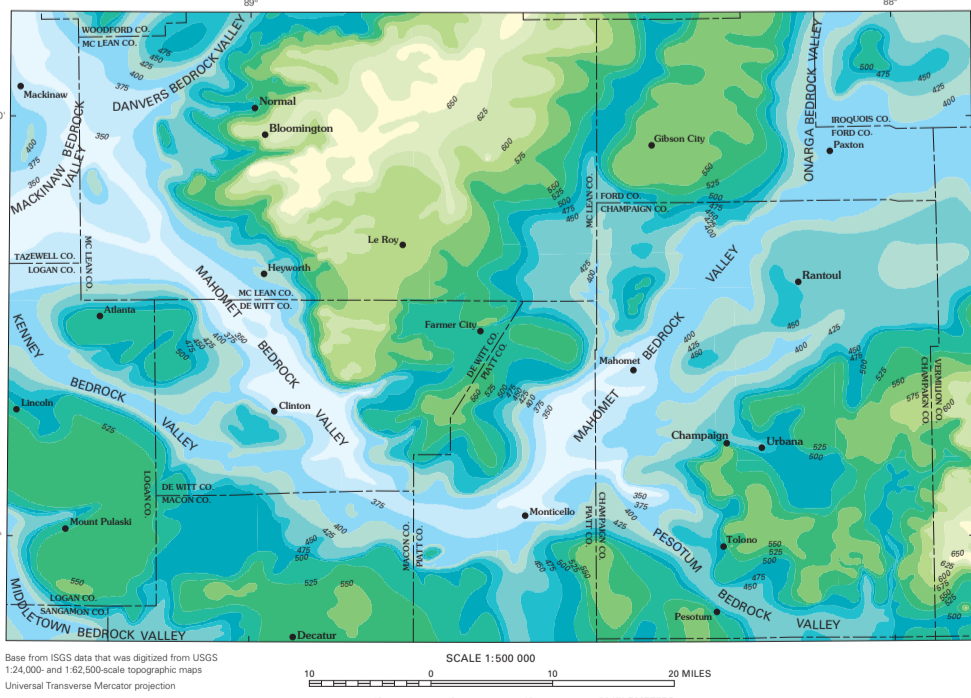
14D.—Elevation of the top of the lower Glasford Formation.



14C.—Elevation of the top of the upper Banner Formation.

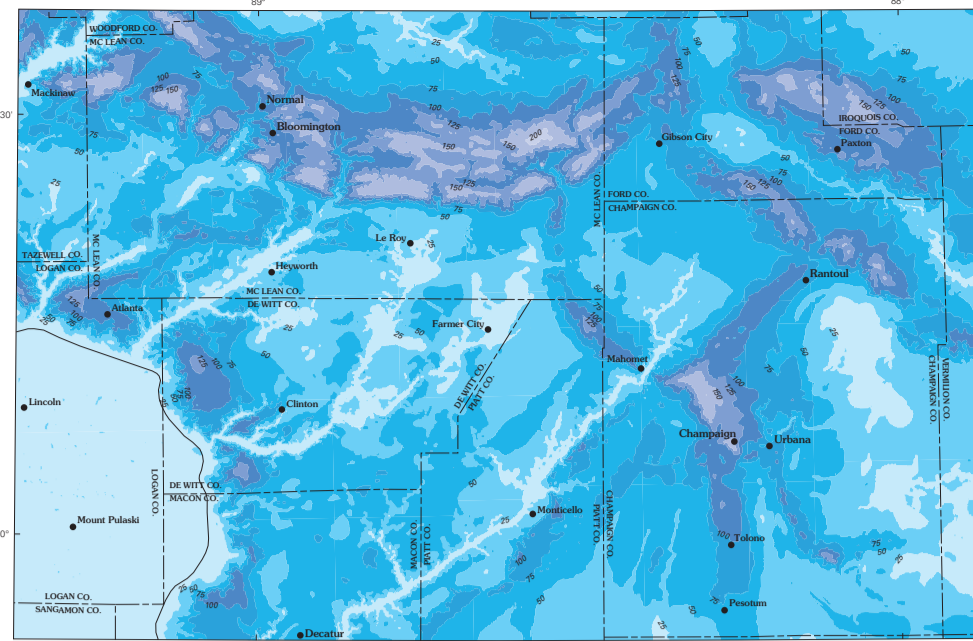


14B.—Elevation of the top of the middle Banner Formation. Approximate distribution of basal (sand and gravel) and lacustrine (silt) facies of the Mahomet Sand Member is shown by patterns. Sand and gravel commonly occur in the Mahomet Bedrock Valley's main channel. Silt and clay occur in tributaries because ice or sediment dams in the main channel blocked the tributaries, causing water to pond and fine sediment to be deposited.

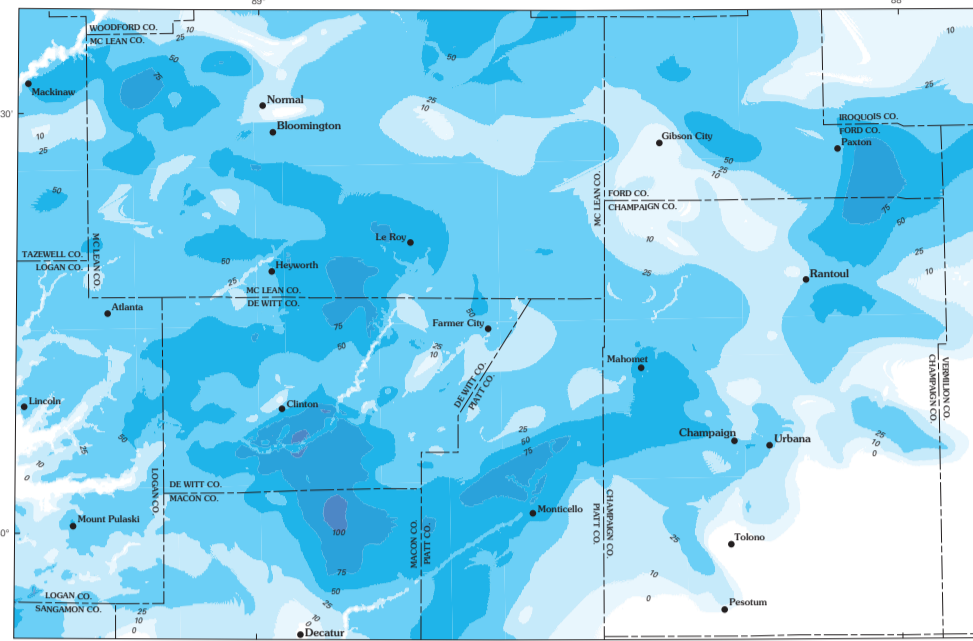


14A.—Elevation of the bedrock surface. Bedrock units are undifferentiated. Selected bedrock valleys are identified.

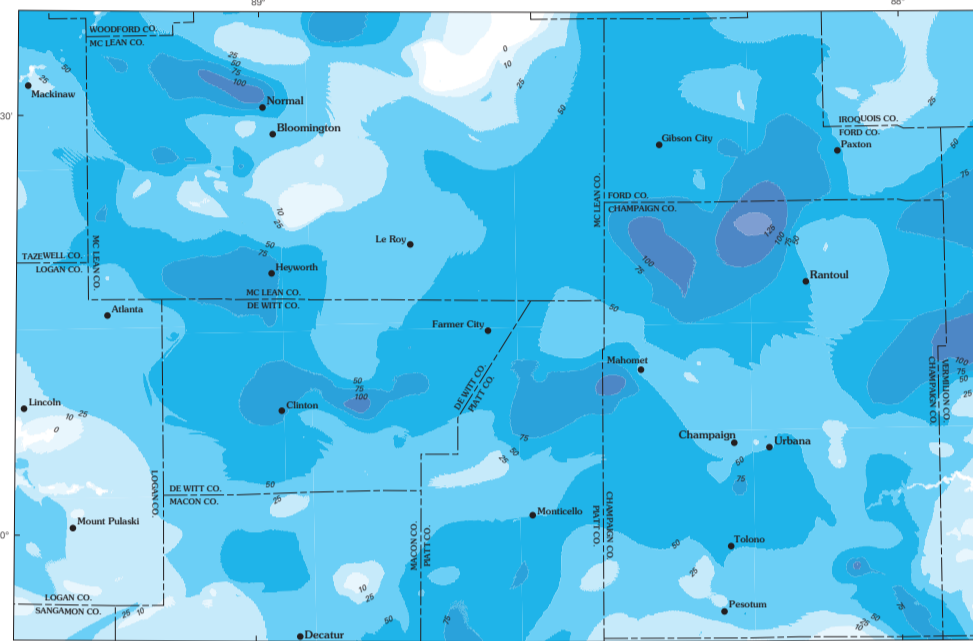
Figure 14A-F.—Elevation, in feet above sea level, of the top or uppermost surface of bedrock and of the Quaternary stratigraphic units. Refer to discussion on sheet 1 under "Converting to raster format" for explanation of characteristic jagged boundaries of units on these raster maps.



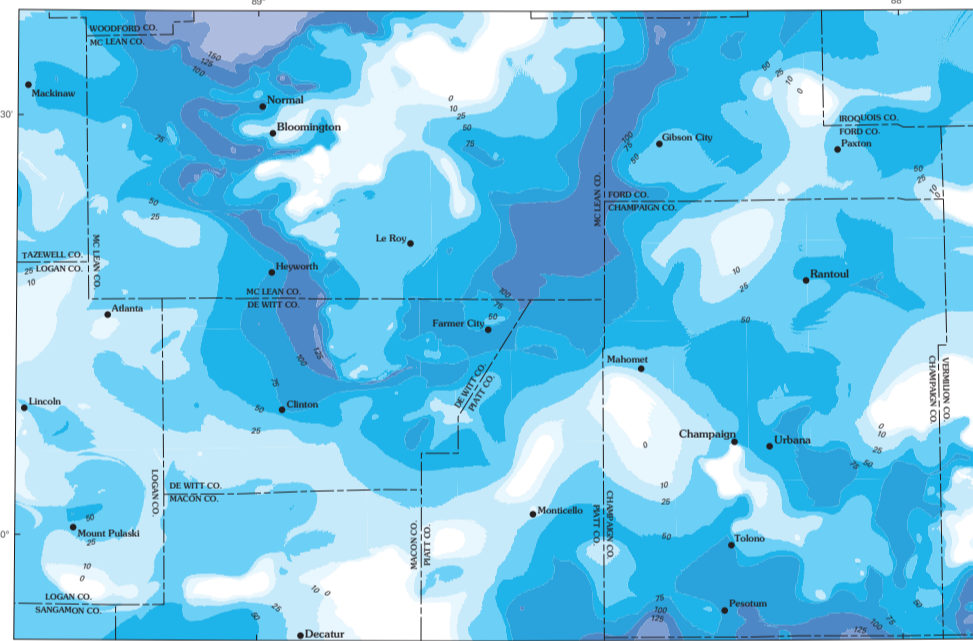
15E.—Thickness of the Weston and Mason Groups. Includes thin, discontinuous Cabokia Formation. The southwestern part of the map area lies beyond the limit of Weston Group deposits, shown by black line. There, only this, discontinuous Cabokia Formation and Mason Group deposits occur, mostly as slivers, outcrops, and boulders, to permit them and the underlying units to be mapped efficiently by composite a uniform thickness of 15 ft was assumed (see discussion on sheet 1 under "An internally consistent geologic model and set of maps," fourth paragraph). Narrow, sinuous areas of this sediment are the result of incision by modern streams.



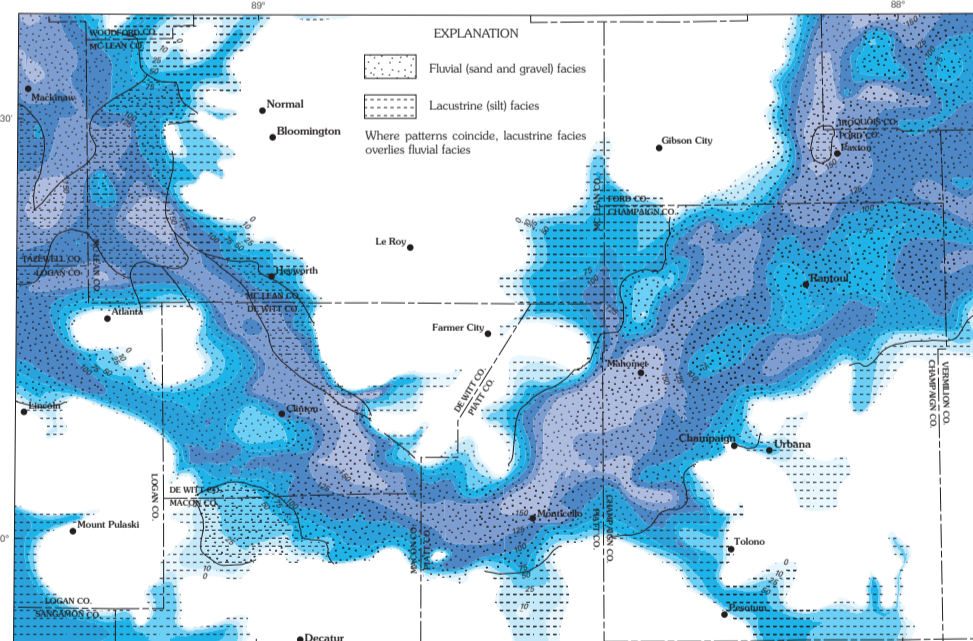
15D.—Thickness of the upper Glasford Formation. Narrow, sinuous areas of this sediment or no sediment, most notable in the western half of the map area, are the result of incision by modern streams, such as the Mahomet River, Salt Creek, and the Sangamon River.



15C.—Thickness of the lower Glasford Formation. Narrow, sinuous areas of this sediment or no sediment, especially in the southwestern and southeastern parts of the map area, are the result of incision by modern streams (for example, Salt Creek and Salt Fork).

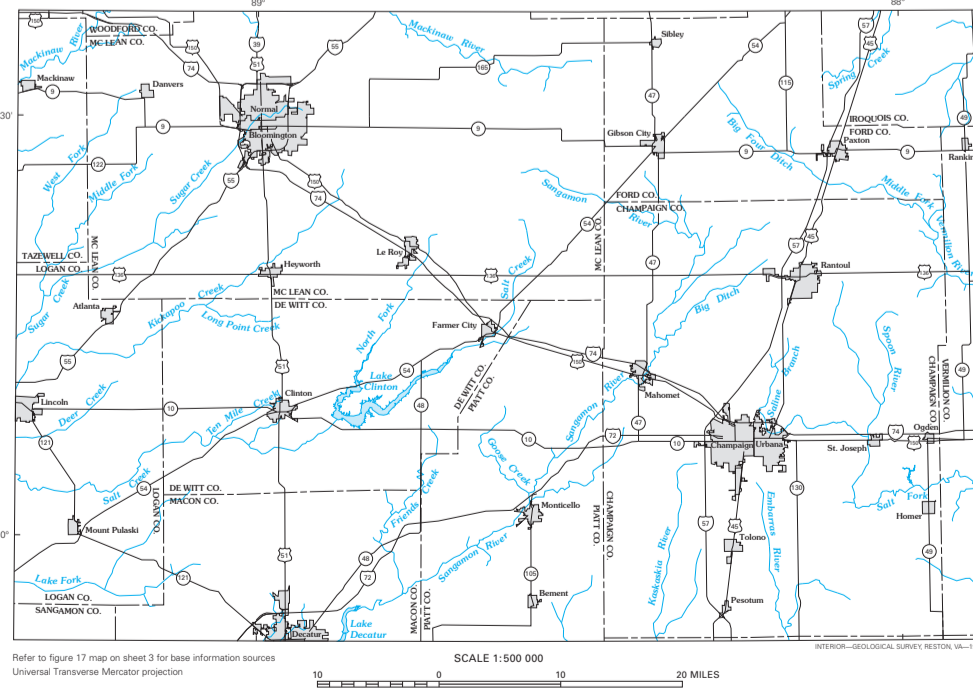


15B.—Thickness of the upper Banner Formation. In upland areas around the Mahomet Bedrock Valley, this unit includes lower Banner Formation sediments, as they are patchy in distribution and not mappable separately (see discussion on sheet 1 under "Quaternary stratigraphy," fifth paragraph). Approximate distribution of basal (sand and gravel) and lacustrine (silt) facies of the Mahomet Sand Member is shown by patterns. Sand and gravel are the principal constituents in the Mahomet Bedrock Valley's main channel. Silt and clay occur in tributaries because ice or sediment dams in the main channel blocked the tributaries, causing water to pond and fine sediment to be deposited.

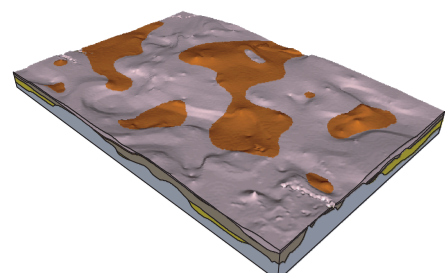


15A.—Thickness of the middle Banner Formation. In the Mahomet and Mahomet Bedrock Valley, the middle Banner includes lower Banner Formation sediments, as they are patchy in distribution and not mappable separately (see discussion on sheet 1 under "Quaternary stratigraphy," fifth paragraph). Approximate distribution of basal (sand and gravel) and lacustrine (silt) facies of the Mahomet Sand Member is shown by patterns. Sand and gravel are the principal constituents in the Mahomet Bedrock Valley's main channel. Silt and clay occur in tributaries because ice or sediment dams in the main channel blocked the tributaries, causing water to pond and fine sediment to be deposited.

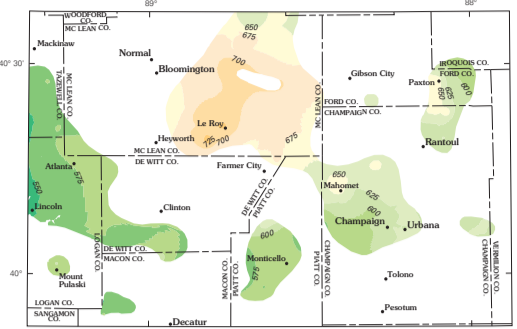
Figure 15A-E.—Thickness, in feet, of five stratigraphic units. Thickness was computed as the difference in elevation between the top of a unit and the top of the underlying unit. Refer to discussion on sheet 1 under "Converting to raster format" for explanation of characteristic jagged boundaries of units on these raster maps.



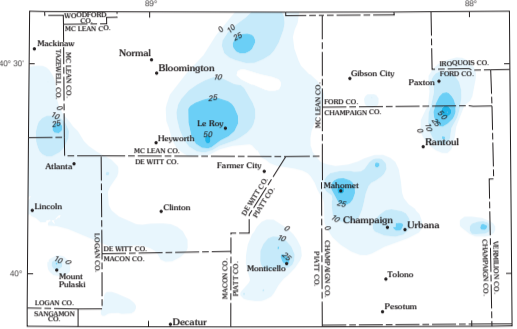
Selected natural and cultural features in the map area.



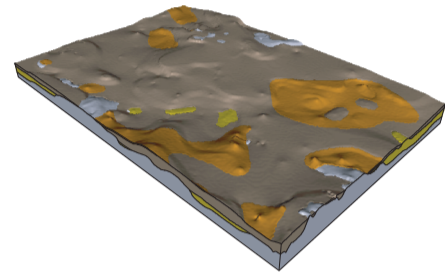
16F.—Surface topography of the upper Glasford basal sand (orange unit) and older deposits.



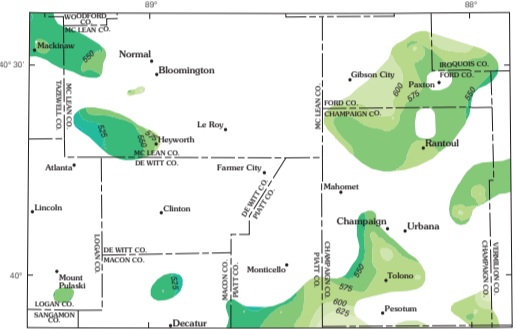
16E.—Elevation of top of basal sand, upper Glasford Formation.



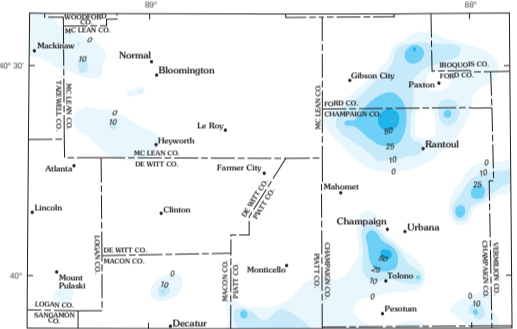
16D.—Thickness of basal sand, upper Glasford Formation.



16C.—Surface topography of the lower Glasford basal sand (orange unit) and older deposits.



16B.—Elevation of top of basal sand, lower Glasford Formation.



16A.—Thickness of basal sand, lower Glasford Formation.

Figure 16A-F.—Maps and block diagrams showing sand layers at the base of the lower and upper Glasford Formations. These layers, although thin and discontinuous, also are used as aquifers. Other sands within the Glasford exist but are not as readily correlated between data points; there, they are not shown. Thickness and elevations are in feet above sea level. Viewpoint in block diagrams is from the southwest. To show topographic detail, the maps are vertically exaggerated approximately 20X.

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